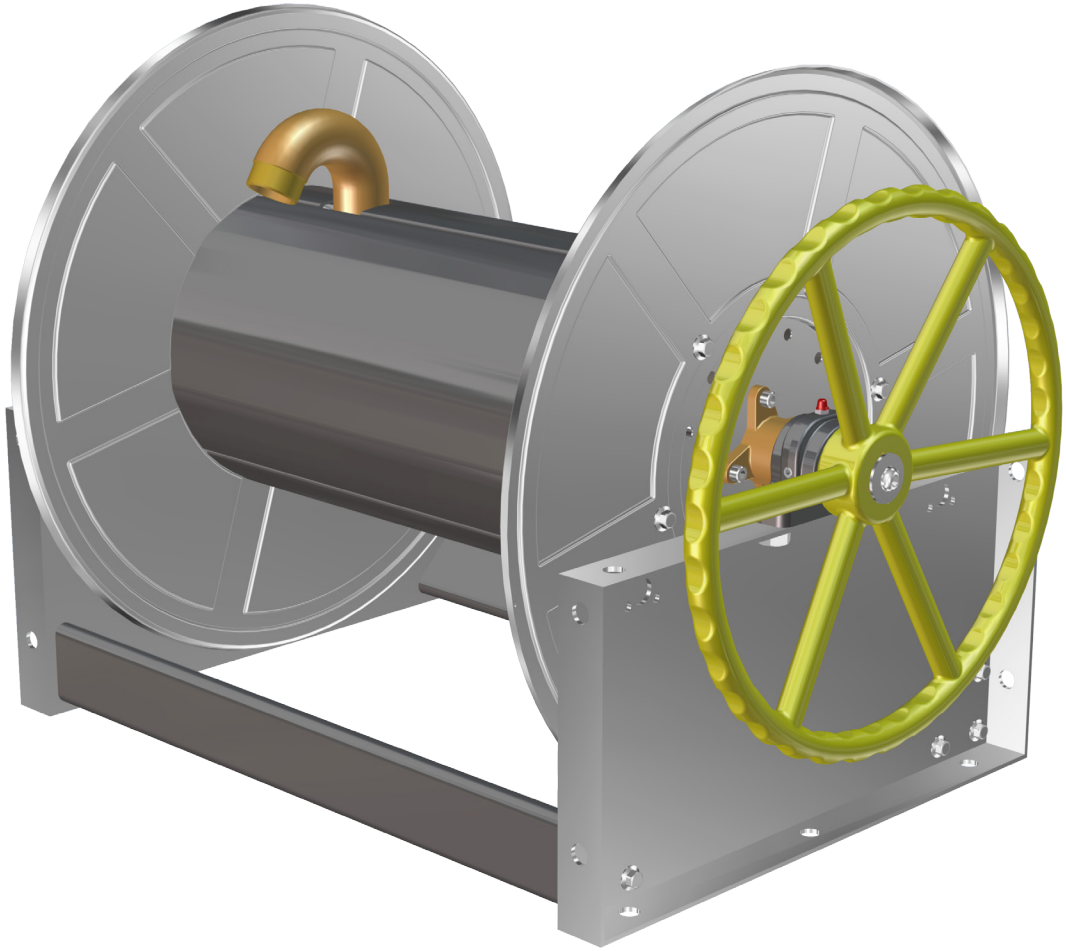
FIREFIGHTING EQUIPMENT

User manual



Hydraulic reels in stainless steel For DN 33 / DN 38 hoses

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DESIGNATION	DESCRIPTION
Product type	Manual reels
Product	Manual hydraulic reels in stainless steel for semi-rigid hoses DN25 and DN33
Product reference concerned by the manual	All manual hydraulic reels in stainless steel for semi-rigid hoses, with left or right water supply. Ref. 28412 used for all visuals
Documentation ref.	1942
Language	English
Creation date	26/07/2013
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Review follow up	Rev. A - 26/07/13 : - Original file

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• Introduction

Please read this manual before using the equipment.

Use, maintenance, or any other operating of the equipment must be done by staff trained for the safety rules and use of this equipment.

While using the reel (use, maintenance, installation, ...) it is important to wear a personal protective equipment.

• Dismantling and warranty

This equipment has a warranty of 1 year for any fabrication default, excepted special written agreement.

The exploded view and bill of materials are not a dismantling manual.

Any dismantling or maintenance operation of the device must be done with water supply cut off and system drained (no water in the hose). According to the dismantling or maintenance operation undertaken, it may be necessary to remove the hose.

Dismantling and/or modification of the equipment outside POK SAS factory is allowed only in compliance with procedure described in this manual, and therefore does not affect the warranty.

If the equipment is repaired, the spare parts must be supplied by POK SAS. If not, technical characteristics listed in this document won't be valid, the warranty will void and POK SAS responsability will not be applied.

If maintenance operation will damage the parts, the warranty may not work if the procedure has not been carried out properly.

The installation direction is settled in POK SAS factory and can't be adapted by the customer. In case of reversal in the order, the reel have to be return to POK SAS factory to be modified.

Although this is not explicitly stated in instructions, use and wear of protective equipment are obligatory during maintenance operation. Otherwise POK SAS is not responsible of any damage or accident which may occur during the dismantling. If this obligation is not met, please refer to the tool instructions guide for more details.

Only POK SAS can ensure proper and safe functioning of the equipment. Therefore POK SAS will not be liable for any damage or accident caused by dismantling of the equipment outside its workshop.

Do not modify the equipment, it may not be working or be dangerous for use.

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• Use

Please respects the technical limits of the equipment.

It is important to be aware and respect the security rules concerning your operating environnement before using the equipment.

The apparatus can not be used if any part is missing or damaged.

POK SAS is not responsible of any accident that may occur during operating caused by improper use or non-compliance with safety means.

This reel is not a lifting or pulling accessory. POK SAS is not responsible of any damage or accident is due to improper operating. If reel is damaged during a lifting or pulling operation, all costs will be born by customer and warranty will be void.

Do not place hands near the plates when the reel is in motion.

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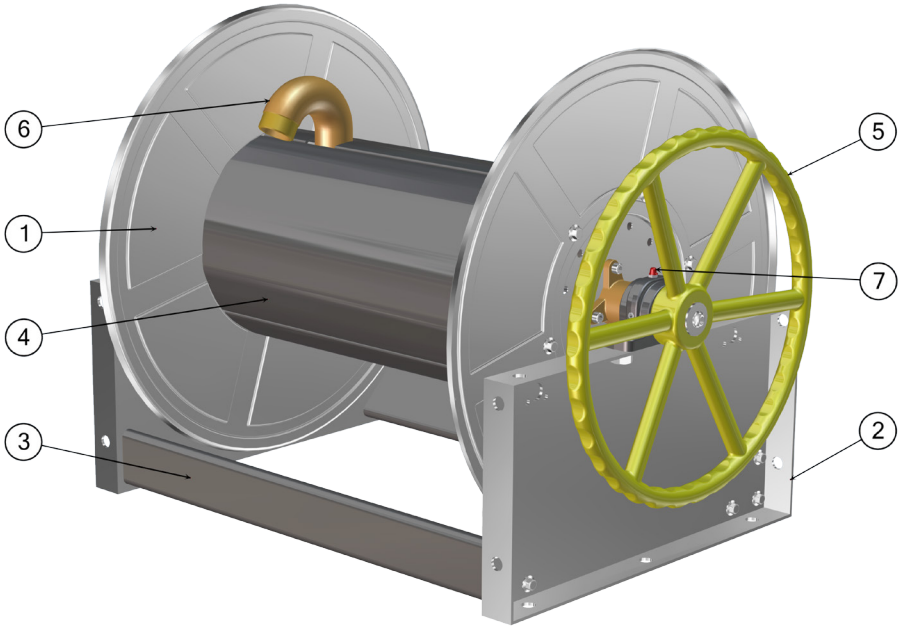

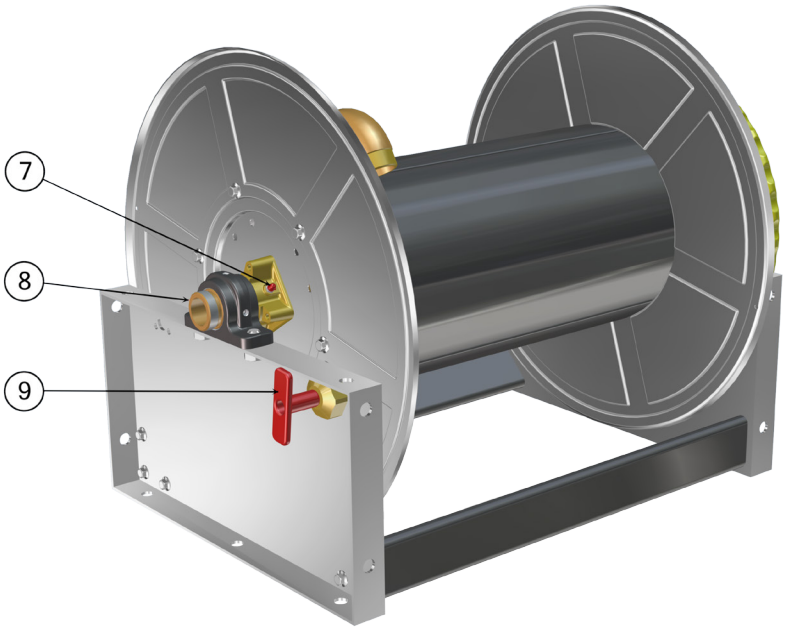

MARK	VALUES
1	Plates
2	Support
3	Support crosspiece
4	Reel crosspiece
5	Handwheel
6	Swan neck outlet
7	Greasers
8	Supply inlet
9	Rotation locking handle

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• Construction

DESIGNATION	VALUE
Support and plates	• Stainless steel.
Support crosspiece and reel crosspiece	• Aluminium alloy • Coating : anodization
Handwheel	• Cast aluminium alloy • Coating : yellow polyester paint
Coupling	• Brass and bronze
Pins and screws	• Stainless steel

• Characteristics

DESIGNATION	VALUE
Inlet	• Male 1"1/2 BSP OU • Female 1"1/4 BSP **Note :** A coupling can be supplied on request, see catalog for more information about couplings.
Rolling / unrolling	• Manually operated
Working pressure	• PN 16
Suitable hoses	• Semi-rigid hoses DN 33 / DN 38

• Options

DESIGNATION	VALUE
Hose guide	• with/without
Plate's diameter	• Ø 610/480 mm
Reel's diameter	• Ø 280 mm
Inlet / locking handle / Handwheel	• Inlet and locking handle on the right side, handwheel on the left OR • Inlet and locking handle on the left side, handwheel on the right.

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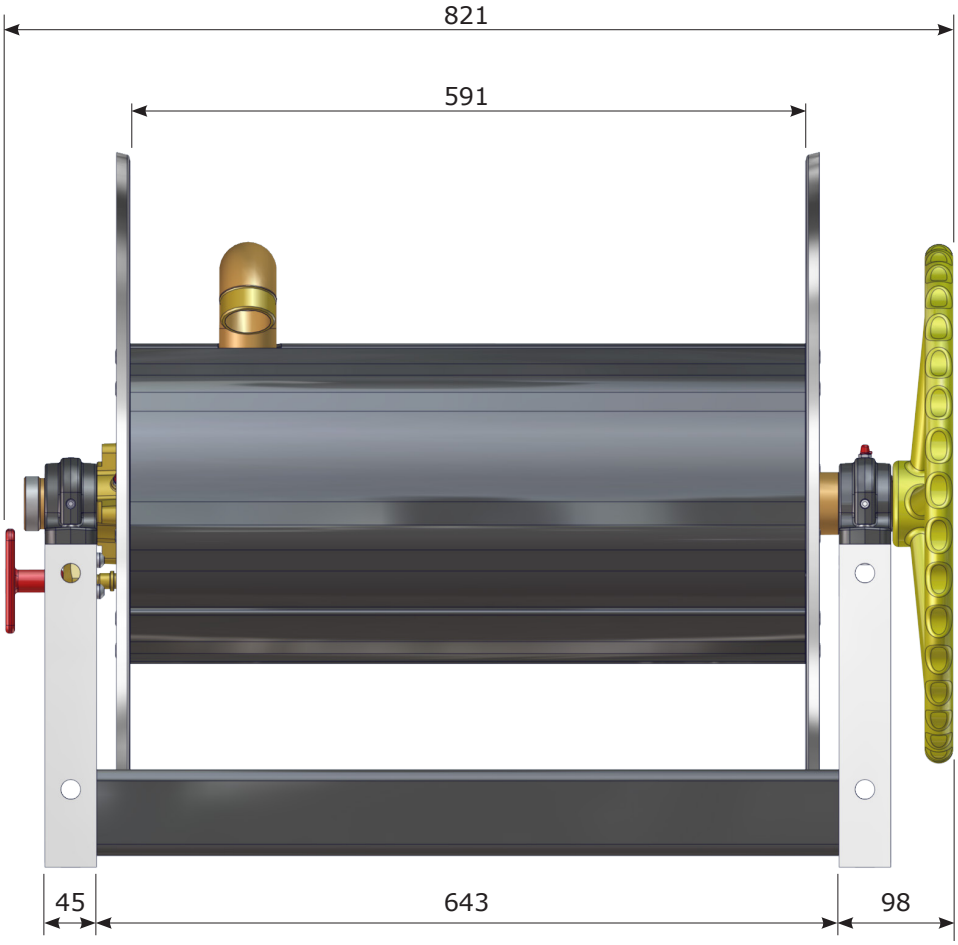
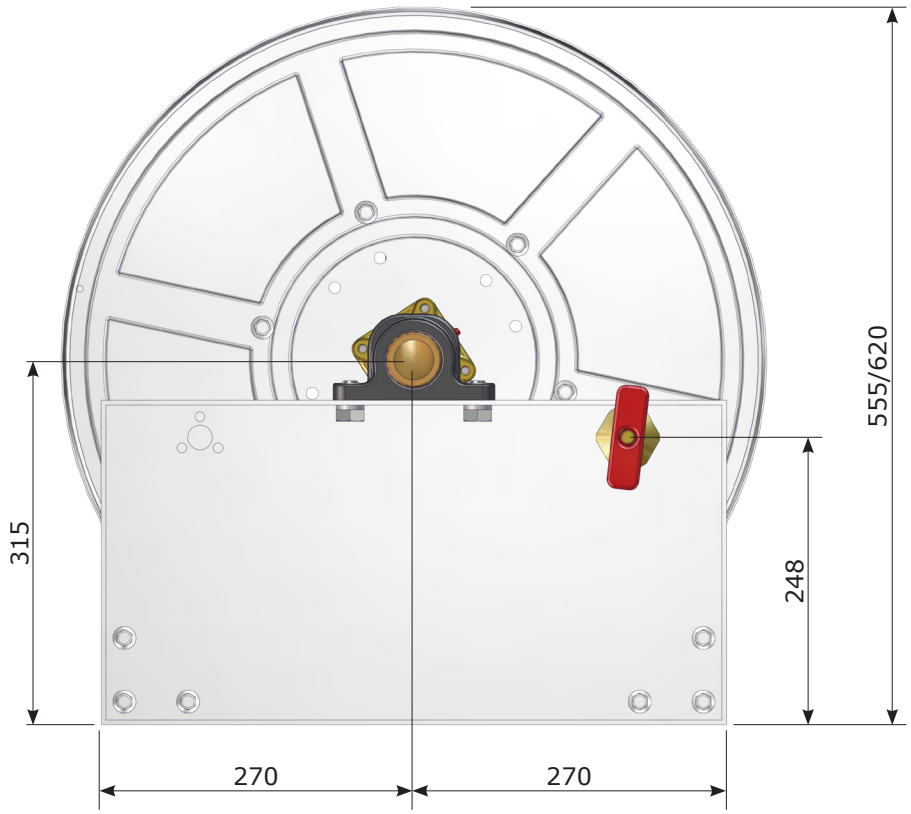
Overall dimensions





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• Fixing

6 holes Ø17

Reel fixing with 3 screews on each side.

The width of support crosspiece depends on the width reel ordered.

The standard length (X) is 688mm.

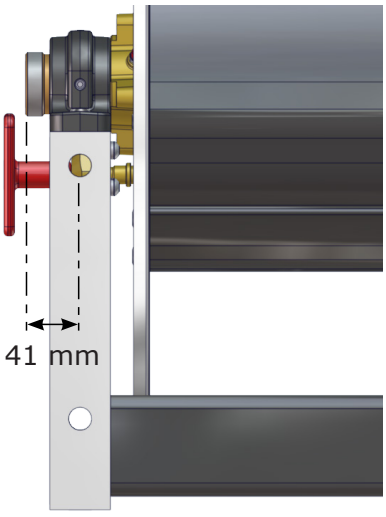
/!\ ATTENTION /!

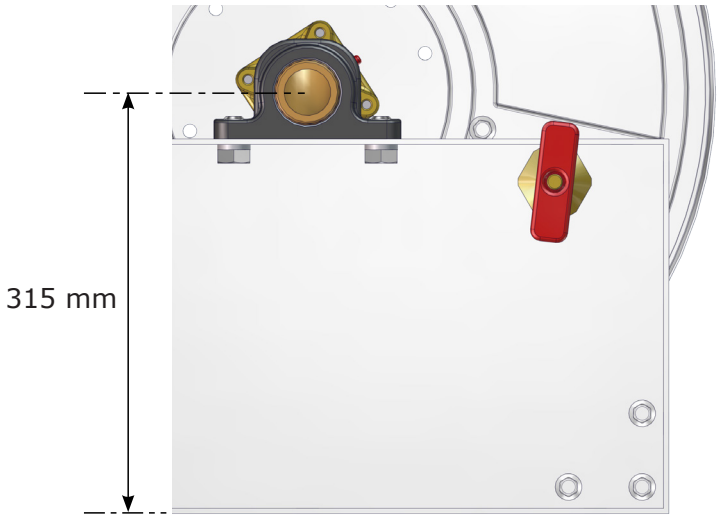
Please check if the reel is fixed on a surface resistant enough to support the equipment and the efforts involved for rolling / unrolling.
The support must be flat, overwise the reel could be distorted with operation degradation.

• Hydraulic connection

During the hydraulic connection of the reel, it is important to mind the following points:

- Diameter and thread of connection must be the same.
- The threadings must not be damaged.
- The gaskets must not be damaged.
- Contact surfaces must be clean and flat.
- Ideally, connect the reel with a semi-rigid hose.
- Fixing holes / inlet fitting measurments:





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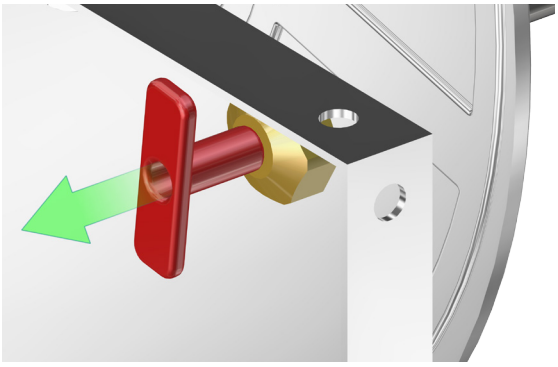
• Use

1 - Unlock the reel by pulling the locking handle.



2 - Unroll the hose up to the operation area.

Note : during the use of a semi-rigid hose, it is not necessary to unroll all the hose before operating. (Except particular contraindication concerning your installation and equipment).

3 - Once operating ended, roll up the hose by using the handwheel.

Advices for winding up :

- Before winding up, put the hose on the axis of the reel and place the nozzle down in front of the reel not to damage the nozzle and allow an easy winding up.
- It is recommended to have 2 persons for winding up.

One individual will be in charge of guiding the hose on the reel and the other one will supervise and will solve the problem if the hose is blocked.

- It is recommended to guide the hose and to maintain it tightened during the process.

4 - Push on the locking handle to lock the reel.

/!\ ATTENTION /! During winding/unwinding operations, please do not put hands on plates in motion. It is also important to wear gloves during this operation.

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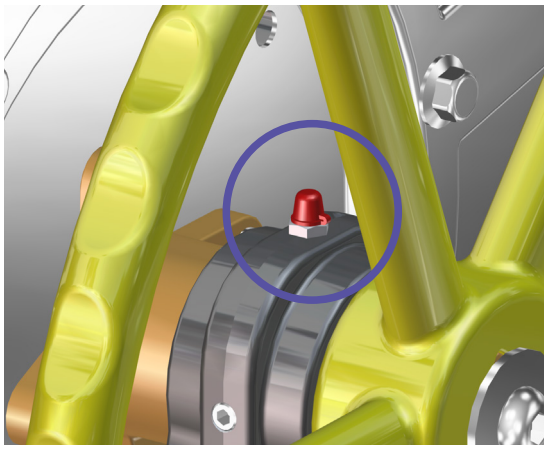
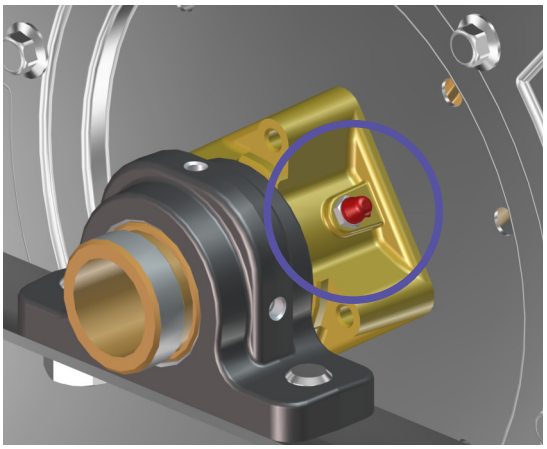
• Lubrication points

It is recommended to grease specific parts of the reel with a grease pump, every 3 months, for maintenance and to prevent a premature deterioration of components due to the friction.





• Advice

It is important to check, after each use, that no part is missing or damaged. If necessary, please replace it as soon as possible.
According to the type and to the frequency of use, leakage can appear on the swivel inlet, due to the wear of gaskets. If it occurs, please do the operation of maintenance described in this manual.

• Storage conditions

After use, it is recommended to clean the reel, particularly at the level of the axis and locking system. The accumulation of mud, sand or quite different element could affect the smooth operation of the reel or in very rare cases damage it.

• Cleaning

Please don't use high pressure jet to clean the reel, some water could infiltrate into rolling bearing and damage them.
Do not use corrosive products. It can damage the coating of the reel parts or damage gaskets.
The soapy water and a cloth are most of the time enought to clean the reel.

• Spare parts

Depending on use and/or storage conditions, some parts may get damaged more or less faster. Contact our sales department in order to obtain information about return or to get a price list.
Use the exploded view and bill of materials to identify precisely the parts you need.

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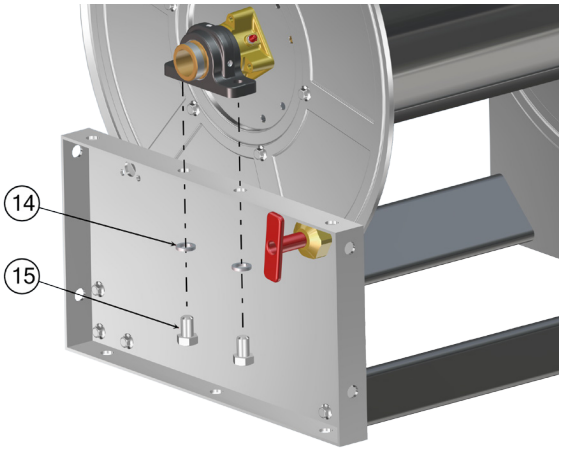
/!\ ATTENTION /!
Maintenance operation of the device must be done with water supply cut off and system drained (no water in the hose).

• Inlet gaskets replacement

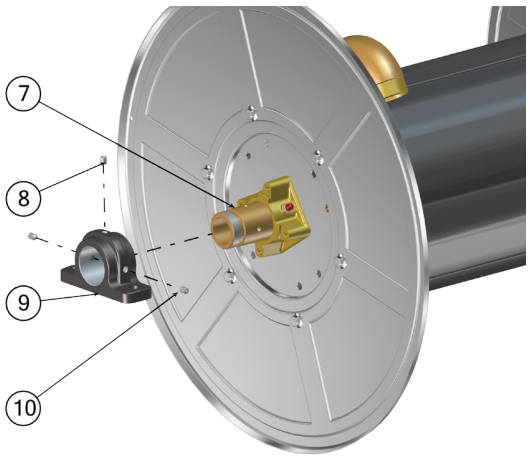
1 - Unscrew 4 screws M16 to take the 2 reels off support

MARK	QTY	DESIGNATION	REF
14	4	Washer W 16	-
15	4	Screw H M16-25	-



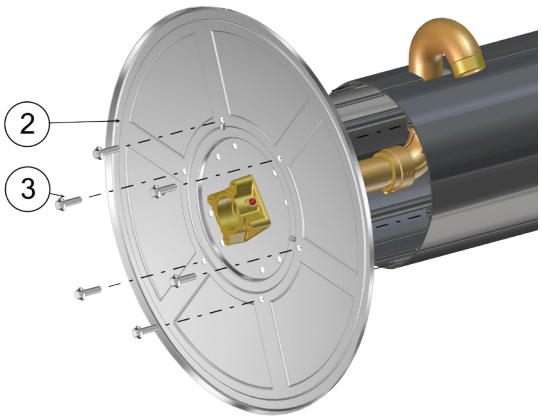
2 - Unscrew 3 screws STHC to take the rolling bearing off the swivel inlet.

MARK	QTY	DESIGNATION	REF
7	1	Swivel inlet	28039
8	1	Screw STHC PL M8-10	-
9	1	Rolling bearing	21808
10	2	Screw STHC TR M8-12	-



3 - Unscrew 6 screws to put the plate off the reel.

MARK	QTY	DESIGNATION	REF
2	1	Plate	18051
3	6	Screw WN 5147-100-35	-



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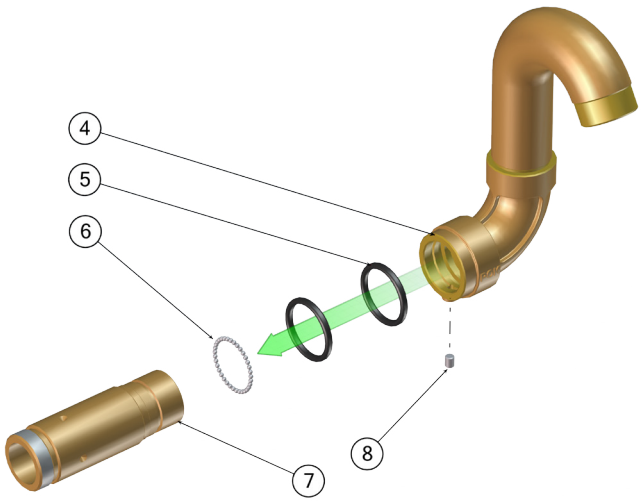
4 - Remove the screw STHC that is under the swan neck to remove balls which maintain supply axis. Separate swan neck and supply axis to replace 2 O'rings N°30.

MARK	QTY	DESIGNATION	REF
4	1	Swan neck outlet	27531
5	2	O ring N°30	-
6	35	Balls Ø 4 mm	-
7	1	Swivel inlet	28039
8	1	Screw STHC PL M8-10	-

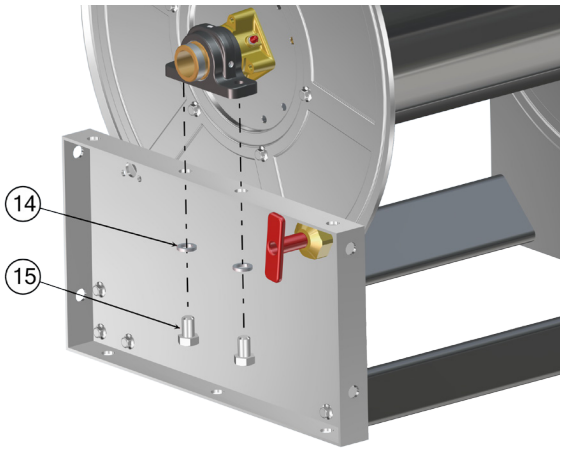


5 - Grease gaskets and reassemble all parts by following all steps in reverse order.

• Locking system replacement

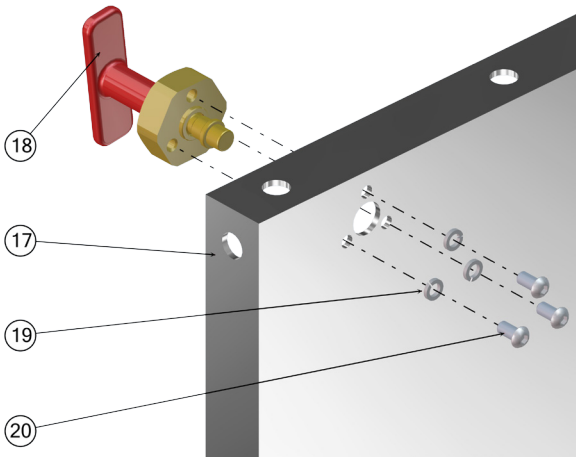
1 - To separate the reel from the support, unscrew 4 screws M16.

MARK	QTY	DESIGNATION	REF
14	4	Washer W 16	-
15	4	Screw H M16-25	-



2 - To separate the locking system from the support, unscrew 3 screws.

MARK	QTY	DESIGNATION	REF
17	1	Support	28036
18	1	Locking system	-
19	3	Washer W 8	-
20	3	Screw CBHC M8-16	-



3 - Change parts and reassemble the parts in reverse order.

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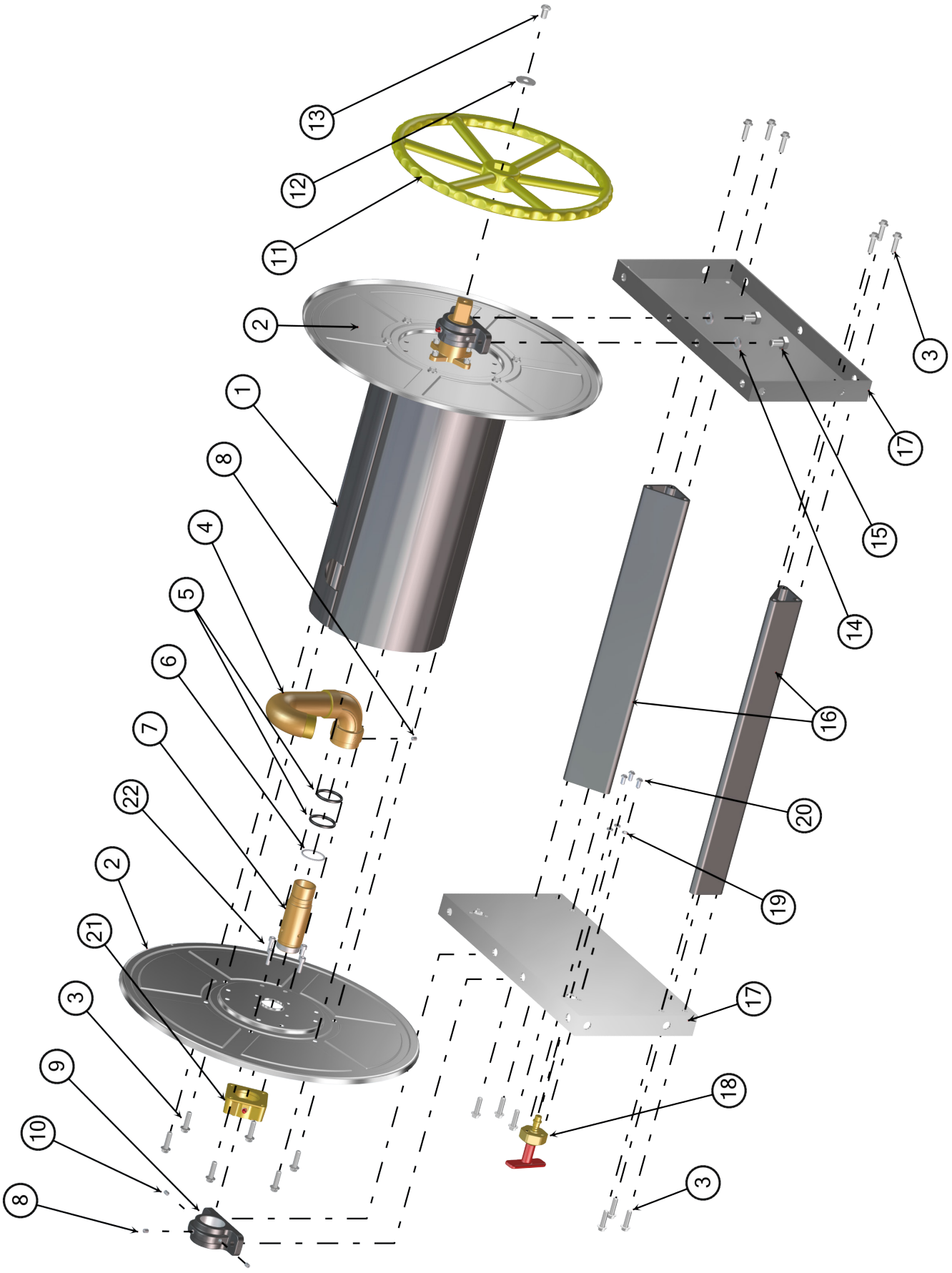
Exploded view



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MARK	QTY	DESCRIPTION	REF
1	1	Reel	-
2	2	Plates	18051
3	24	Screw WN 5147 - 100 - 35	-
4	1	Swan neck outlet	28027
5	2	Gasket R 30	-
6	35	Ball Ø 4mm	-
7	1	Swivel inlet	28039
8	2	Screw STHC PL M8-10	-
9	1	Rolling bearing	21808
10	2	Screw STHC PL M8-12	-
11	1	Handwheel	22129
12	1	Washer LL12	-
13	1	Screw CBHC M12-20	-
14	4	Washer W16	-
15	4	Screw H M16-25	-
16	2	Support crosspiece	-
17	2	Support	28036
18	1	Locking system	-
19	3	Washer W8	-
20	3	Screw CBHC M8-16	-
21	1	Rolling bearing	28254
22	4	Screw CHC M8-25	-

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